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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,319	05/01/2001	Tomihiko Azuma	Q64335	2242

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SUGHRUE, MION, ZINN, MACPEAK & SEAS  
2100 Pennsylvania Avenue, N.W.  
Washington, DC 20037-3202

EXAMINER

HA, LEYNNA A

ART UNIT	PAPER NUMBER
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2135

DATE MAILED: 10/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

3

## Office Action Summary

Application No.

09/845,319

Applicant(s)

AZUMA, TOMIHIKO

Examiner

LEYNNA T. HA

Art Unit

2135

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

**DETAILED ACTION**

1. Claims 1-11 have been examined and are rejected under 35 U.S.C. 102(b).

***Claim Rejections - 35 USC § 102***

*The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:*

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. **Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Khello (US 5,724,423).**

**As per claim 1:**

Khello discloses a user authentication method for checking whether a user is qualified for using a service provided through a network, comprising:  
**[col.1, lines 42-44]**

a step of registration of user authentication information to register a numerical calculation method designated by said user and being specific to said user **[col.4, lines 14-20 and col.8, lines 27-31]** as said user authentication information together with user identification information corresponding to said user; and **[col.1, lines 27-36 and col.7, lines 33-67]**

a step of judging, when said user identification information is transmitted from said user through said network to a service providing site **[col.3, lines 36-48]** and an arbitrary numeric value is transmitted from said service providing site through said network to said user **[col.7, lines 5-12 and col.15, lines 40-49]**, whether a first calculation result obtained by using said arbitrary numeric value which has been transmitted from said user through said network to said service providing site agrees with a second calculation result obtained by applying said arbitrary numeric value to said registered numerical calculation method to perform user authentication. **[col.13, line 13 thru col.14, line 7 and col.15, lines 4-7 and 51-60]**

**As per claim 2:**

Khello discloses a user authentication method for checking whether a user is qualified for using a service provided through a network, comprising:

a step of registration of user authentication information to register a numerical calculation method designated by said user **[col.4, lines 14-20 and col.8, lines 27-31]** through said network and being specific to said user as said user authentication information together with user identification information corresponding to said user; and **[col.1, lines 27-36 and col.7, lines 33-67]**

a step of judging, when said user identification information is transmitted from said user through said network to a service providing site **[col.3, lines 36-48]** and an arbitrary numeric value is transmitted from said

Art Unit: 2135

service providing site through said network to said user **[col.7, lines 5-12 and col.15, lines 40-49]** and a first calculation result corresponding to said arbitrary numeric value is transmitted from said user through said network to said service providing site, whether said first calculation result agrees with a second calculation result obtained by applying said arbitrary numeric value to said registered numerical calculation method to perform said user authentication. **[col.13, line 13 thru col.14, line 7 and col.15, lines 4-7 and 51-60]**

**As per claim 3:**

Khello discloses a network system comprising:

one or a plurality of user terminals by which a user transmits a numerical calculation method being specific to said user together with user identification information corresponding to said user **[col.12, lines 41-48]** through a network to a service providing site and transmits a first calculation result obtained by applying a given numeric value to said numerical calculation method through said network to said service providing site; **[col.8, lines 27-31 and col.7, lines 33-67]**

one or a plurality of service providing sites to register said numerical calculation method together with said user identification information corresponding to said user **[col.3, lines 36-47]**, to transmit an arbitrary numeric value through said network to said user terminal when said user identification information is transmitted from said user terminal through said

Art Unit: 2135

network and to judge, when said first calculation result corresponding to said arbitrary numeric value is transmitted from said user terminal through said network **[col.15, lines 4-7 and 51-60]**, whether said first calculation result agrees with a second calculation result obtained by applying said arbitrary numeric value to said registered numerical calculation method to perform said user authentication. **[col.13, line 13 thru col.14, line 7]**

**As per claim 4:**

Khello discusses the network system according to claim 3, wherein said user terminal has a function of displaying said arbitrary numeric value transmitted from said service providing site. **[col.6, lines 20-25]**

**As per claim 5:**

Khello discusses the network system according to claim 3, wherein said user terminal has a function of outputting, by voice, said arbitrary numeric value transmitted from said service providing site. **[col.5, lines 60-65 and col.6, lines 20-25]**

**As per claim 6:**

Khello discusses the network system according to claim 3, wherein said user terminal is made up of a portable cellular phone or a personal digital assistant, having a function of displaying said arbitrary numeric value transmitted from said service providing site. **[col.5, lines 60-65 and col.6, lines 20-25]**

**As per claim 7:**

Khello discusses the network system according to claim 3, wherein said user terminal is made up of a portable cellular phone or a personal digital assistant, having a function of outputting, by voice, said arbitrary numeric value transmitted from said service providing site. **[col.5, lines 60-65 and col.6, lines 20-25]**

**As per claim 8:**

Khello discssues the network system according to claim 3, wherein said first calculation result is input by voice of said user to said user terminal and is transmitted through said network to said service providing site and wherein said service providing site has a function of performing voice recognition of said first calculation result. **[col.5, lines 60-65 and col.6, lines 20-25]**

**As per claim 9:**

Khello discloses a storage medium storing a control program to have a computer carry out a user authentication method for checking whether a user is qualified for using a service provided through a network, said method comprising:

a step of registration of user authentication information to register a numerical calculation method designated by said user **[col.4, lines 14-20 and col.8, lines 27-31]** and being specific to said user as said user authentication information together with user identification information corresponding to said user; and **[col.1, lines 27-36 and col.7, lines 33-67]**

a step of judging, when said user identification information is transmitted from said user through said network to a service providing site **[col.3, lines 36-48]** and an arbitrary numeric value is transmitted from said service providing site through said network to said user **[col.7, lines 5-12 and col.15, lines 40-49]**, whether a first calculation result obtained by using said arbitrary numeric value which has been transmitted from said user through said network to said service providing site agrees with a second calculation result obtained by applying said arbitrary numeric value to said registered numerical calculation method to perform user authentication. **[col.13, line 13 thru col.14, line 7 and col.15, lines 4-7 and 51-60]**

**As per claim 10:**

Khello discloses a storage medium storing a control program to have a computer carry out a user authentication method for checking whether a user is qualified for using a service provided through a network, said method comprising:

a step of registration of user authentication information to register a numerical calculation method designated by said user **[col.4, lines 14-20 and col.8, lines 27-31]** through said network and being specific to said user as said user authentication information together with user identification information corresponding to said user; and **[col.1, lines 27-36 and col.7, lines 33-67]**



a step of judging, when said user identification information is transmitted from said user through said network to a service providing site **[col.3, lines 36-48]** and an arbitrary numeric value is transmitted from said service providing site through said network to said user **[col.7, lines 5-12 and col.15, lines 40-49]** and a first calculation result corresponding to said arbitrary numeric value is transmitted from said user through said network to said service providing site, whether said first calculation result agrees with a second calculation result obtained by applying said arbitrary numeric value to said registered numerical calculation method to perform said user authentication. **[col.13, line 13 thru col.14, line 7 and col.15, lines 4-7 and 51-60]**

**As per claim 11:**

Khello discloses a storage medium storing a control program to have a computer carry out a network system comprising:

one or a plurality of user terminals by which a user transmits a numerical calculation method being specific to said user together with user identification information corresponding to said user **[col.1, lines 27-36 and col.7, lines 33-67]** through a network to a service providing site and transmits a first calculation result obtained by applying a given numeric value to said numerical calculation method through said network to said service providing site; **[col.8, lines 27-31 and col.7, lines 33-67]**

Art Unit: 2135

one or a plurality of service providing sites to register said numerical calculation method together with said user identification information corresponding to said user **[col.1, lines 27-36 and col.7, lines 33-67]**, to transmit an arbitrary numeric value through said network to said user terminal when said user identification information is transmitted from said user terminal through said network and to judge, when said first calculation result corresponding to said arbitrary numeric value is transmitted from said user terminal through said network **[col.15, lines 4-7 and 51-60]**, whether said first calculation result agrees with a second calculation result obtained by applying said arbitrary numeric value to said registered numerical calculation method to perform said user authentication. **[col.13, line 13 thru col.14, line 7]**

### **Conclusion**

**\*\*\*For further details and information regarding the rejections above, please refer to Khello on col.1, line 11 – Et. SEQ.**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEYNNA T. HA whose telephone number is (703) 305-3853. The examiner can normally be reached on Monday - Thursday (7:00 - 5:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (703) 305-4393. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**\*\*\*TC 2100 will be moved to Carlyle in October 2004. At this time, any inquiry or communications should be directed to the examiner, LEYNNA HA, whose new telephone number is (571) 272-3851 and the new telephone number for TC 2100 receptionist is 571-272-2100.**

LHa



KIM VU  
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